

ULISES SALINAS

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EDUCATION

University of California, San Diego

San Diego, CA

Bachelor of Science in Computer Science

September 2022 – June 2026

Relevant Coursework: Advanced Data Structures, Software Engineering, Algorithms Analysis, Object-Oriented Design, Database Systems, Operating Systems

EXPERIENCE

Software Developer Intern

June 2024 – Present

Center for Applied Internet Data Analysis (CAIDA)

San Diego, CA

- Collaborated with a cross-functional team to develop a software tool (**Python**) for research paper identification using CAIDA datasets, reducing metadata collection time by **30%** through web scraping and NLP
- Implemented a **MySQL** database with an **ETL** pipeline to manage 4,000+ metadata records, enabling seamless data extraction, transformation, and retrieval while ensuring integrity and scalability
- Refactored the codebase to follow MVC architecture, improving modularity and scalability for future features
- Containerized applications with **Docker** for scalable deployments and isolated testing environments
- Automated testing workflows with GitHub Actions, reducing bugs by **20%**

Software Engineering Intern

October 2024 – Present

UCSD CSES Society (Open Source Project)

San Diego, CA

- Contributed to the development of an open-source social network for students and alumni to track internships, connect, and share career resources, collaborating with a team of six
- Implemented **REST APIs** with **Node.js** and **Express.js**, to support users with a scalable backend infrastructure
- Created secure authentication and authorization with **Firebase**, ensuring data protection
- Developed **MongoDB** data models to efficiently store and retrieve application data, enabling scalable management
- Improved code maintainability through extensive use of **TypeScript** for type checking, minimizing runtime errors

Full-Stack Developer Intern

March 2024 – July 2024

We Care Insurance

Remote

- Developed user-centric interfaces using **jQuery**, **JavaScript**, **Bootstrap**, and **HTML/CSS**
- Improved backend API performance by **30%** through query optimization and caching
- Developed key application features using Test-Driven Development (**TDD**), ensuring **90%** test coverage

PROJECTS

WebClicker++ | React, PostgreSQL, Next.js,

- Developing a web-based iClicker replacement with a Q&A interface and professor tools

Foodify | React Native, Flask, Express.js, Node.js, MongoDB

- Built a **React Native app** for personalized food recommendations, helping users discover 500+ new foods
- Designed **MongoDB** database schemas and models, integrating with the backend to ensure data management
- Developed a backend API server with **Node.js** and **Express.js** to handle requests and routing

Developer Journal | JavaScript, HTML/CSS, Git

- Built a developer journal app with a team of 9, improving team efficiency through **agile** practices
- Established a **CI/CD** pipeline for automated testing and deployment, reducing manual deployment overhead
- Performed End-to-end (E2E) testing with **Puppeteer** and **Jest**, proactively identifying issues pre-release

TECHNICAL SKILLS

Programming Languages & Tools: Python, JavaScript, TypeScript, SQL, HTML/CSS, Docker, Git, Postman, Linux/Unix, MySQL Workbench

Frameworks & Libraries: React, Node.js, Express.js, Bootstrap, spaCy, BeautifulSoup, InquirerPy

Databases: MySQL, MongoDB